DC C1020
Digital Camera
User Manual

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FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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Safety warning and notice

Before operating the camera, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camera warranty may be void. Meanwhile, not only the camera but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

For your safety

- Keep the camera and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such as memory cards and batteries could be easily dismantled and swallowed by them.
- Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.
- Do not dismantle the camera under any circumstances.
- When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.
- Use only the specified batteries. Otherwise you risk serious damage to health and property. The battery could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Some camera models accept non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.

Warranty

- Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other force majeure events as well as incorrect usage of electricity or use of non-original accessories.
- It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.
- Do not change the camera. Any changes to the camera invalidate the warranty.

Taking care of your camera

- Always keep the camera in the accompanying leather case or pouch for better protection against splashes, dust, and collision.
- The only way of replacing the battery and the memory card is to open the Battery / Memory card cover.
- Dispose of unwanted batteries and cameras as permitted by the laws in your countries.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.

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- Do not drop, knock, or shake the camera. A rude behavior of using the camera may damage the internal electronic circuit board, deform the lens shape, or make the lens unretractable.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camera.
- Finger grease may be left on the camera lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camera lens before taking pictures or recording videos. You should also clean the camera lens on a regular basis.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens.
- Do not touch the lens with your fingers.
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the battery and the power adapter. Next, remove the foreign substance or water and send it to the maintenance center.
- Whenever there is data in the internal memory or the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.
- If the lens cannot retract into the camera, please replace the battery first (usually this is because of a drained battery). Then the lens should retract automatically. If the lens still cannot retract, please contact your dealer.
- Under no circumstances should you push the lens back manually as this may damage the camera.
- All original accessories are designed only for use with this camera model you purchased. Do not use these accessories to other camera models or cameras of other brands to avoid unpredictable danger or damage.
- Before initial use of a memory card, always format the card first using the camera.
- Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

Operating environment

- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - Dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
  - Unstable locations
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- The camera operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.
- The capacity of your camera battery will reduce each time it is charged/emptied. Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camera may be considerably reduced, even after a full recharge of the battery.
- It is normal for the camera to become warm during operation, because the camera casing can conduct heat.

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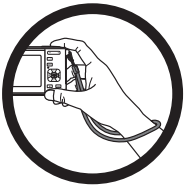
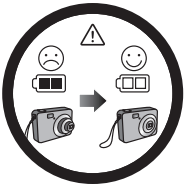
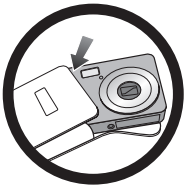
Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.



To avoid accidental falling, please attach the hand strap to the camera and always hold the camera by keeping the hand strap around your wrist.



If the batteries suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert batteries with full power ASAP.



When the camera is not in use, always turn the power off and make sure the lens has retracted successfully before storing the camera in its case. If you do not intend to use the camera for a long time, please remove the batteries from the camera and store the batteries carefully.

Keep your camera away from sharp objects and avoid collision.

When the camera is not in use, please place it in a steady place. Plus, always keep your camera away from pressure or any other similar environment (for example, in a pant pocket) to avoid possible damage.

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Table of Contents

1. **Touring Your Camera** 1
   - 1.1 Checking the package contents 1
   - 1.2 Camera components 2
     - 1.2.1 Front view 2
     - 1.2.2 Rear view 2
     - 1.2.3 LED indicators 3
2. **Preparing Your Camera for Use** 4
   - 2.1 Installing the batteries 4
   - 2.2 Inserting and removing an SD memory card 5
3. **Using the Camera** 6
   - 3.1 Navigator 6
   - 3.2 LCD monitor information (capture mode) 6
   - 3.3 Getting started 7
     - 3.3.1 Turning the power on / off 7
     - 3.3.2 Initial setting 7
       - 3.3.2.1 Setting the language 7
       - 3.3.2.2 Setting the date and time 7
     - 3.3.3 Capture mode 8
       - 3.3.3.1 Getting started with capturing images 8
     - 3.3.4 Using the focus mode 8
     - 3.3.5 Flash mode 9
     - 3.3.6 Drive mode 9
     - 3.3.7 Using the zoom function 10
   - 3.4 Menu options 10
     - 3.4.1 Changing the mode 10
       - 3.4.1.1 Switching between capture and playback modes 10
       - 3.4.1.2 Selecting the shooting mode 11
     - 3.4.2 Using the menus 12
       - 3.4.2.1 Capture menu list (still image) 12
       - 3.4.2.2 Capture menu list (movie) 13
     - 3.4.3 Setup menu 13
       - 3.4.3.1 Setup menu list 14
   - 3.5 Capturing movie clips 16
   - 3.6 Capturing audio clips 16
   - 3.7 Other capturing functions 16
     - 3.7.1 Setting the quality 16

English

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3.7.2 Setting the metering 17
3.7.3 Setting the white balance 17
3.7.4 Setting the ISO 17
3.7.5 Setting the EV compensation 17
3.7.6 Setting the AEB 18
3.7.7 Setting the highlight 18
3.7.8 Setting the sharpness 18
3.7.9 Setting the photo effect 18
3.7.10 Setting the date stamp 19
3.7.11 Setting S.S.F. 19
3.7.12 Setting face tracking 19
3.7.13 Setting photo frame 19
3.7.14 Setting Av/Tv/M 19
3.7.15 Using Smile Catch 20
3.7.16 Smart Scene 20
3.7.17 Blink Detector 20
3.8 Playback 21
3.8.1 Playing back images 22
3.8.2 Playing back movie clips 22
3.8.3 Adjusting the playback volume 22
3.8.4 Magnifying & trimming still images 22
3.8.5 Viewing in thumbnail 23
3.8.6 Playing a slideshow 23
3.8.7 Deleting a single file or all files 23
3.8.8 Deleting multiple files 24
3.8.9 Setting the startup screen 24
3.8.10 Setting the DPOF for printing 24
3.8.11 Other playback functions 25
4. PC Dependent Features 26
4.1 Bundled software 26
4.2 Transferring files to your computer 26
4.2.1 Step 1: Connect the digital camera to your computer 26
4.2.2 Step 2: Download images or video clips 27
5. Troubleshooting 28
6. Specifications 30
7. Service Information 31

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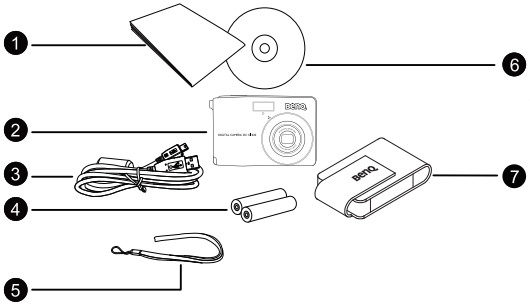
1 Touring Your Camera

1.1 Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.



1. Quick Guide / User Manual
2. Digital camera
3. USB cable
4. Non-rechargeable AA Alkaline batteries
5. Hand strap
6. Software and user manual CD
7. Pouch

- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any of the items are missing or appear to be damaged, contact your dealer. Save the packaging in case you need to ship your camera for service.
- All electronic accessories (such as USB cable) are designed to work with this BenQ digital camera model only. Do not use them with other digital camera models to avoid possible damage.

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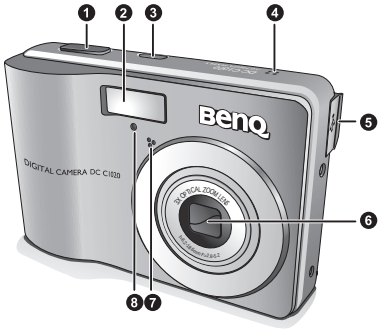
1.2 Camera components

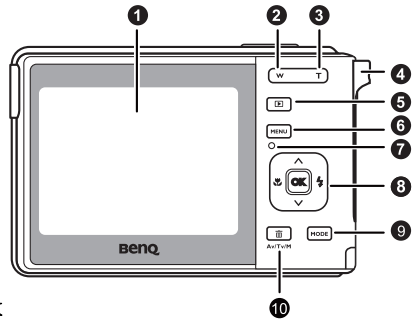
1.2.1 Front view



1. Shutter button
2. Built-in flash
3. Power button
4. Speaker
5. PC (USB) / AV Out terminal
6. Lens
7. Microphone
8. Self-timer LED

If your BenQ camera's lens remains extended after an involuntary shutdown, simply replace the batteries with new ones and restart your camera. Never force the lens inwards since this action will damage the camera and void the BenQ Warranty.

1.2.2 Rear view



1. LCD monitor
2. **W** (Wide) [W] -
   Zoom-out, turn off the Shooting mode description, or enter the thumbnail view (Playback mode)
3. **T** (Tele) [T] -
   Zoom-in or turn on the Shooting mode description
4. Strap eyelet
5. Playback mode button [▶] - Toggle between Capture and Playback modes
6. Menu
7. Status LED
8. Navigator -- four-way control and **OK**
9. Shooting mode
10. Two functions:
    - Capture mode: Toggles between the currently selected shooting mode, Av, Tv, and M.
    - Playback mode: Deletes images and videos.

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1.2.3 LED indicators

Indicator	State	Description
Status LED	No light	The digital camera is off.
	Solid green	The digital camera is ready to capture images.
	Blinking green	The digital camera is powering on and cannot focus or capture video clips, or is in the power-saving mode. The flash is charging, or the USB communication/transfer is in progress.
Self-timer LED	Blinking red	The self-timer function is activated.

• It is normal for the camera to become warm during operation, because camera casing can conduct heat.

• The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.

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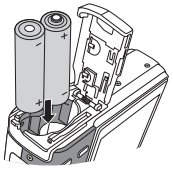
2 Preparing Your Camera for Use

2.1 Installing the batteries

You can use two AA batteries to power up the camera. Make sure that the power of the digital camera is off before removing the batteries.



To insert the batteries:

1. Make sure the camera is turned off.
2. Open the battery cover.
3. Insert the batteries in the correct direction as shown in the illustration.
4. Close the battery cover.

To remove the batteries:

1. Make sure the camera is turned off.
2. Hold the camera with the battery cover facing upward, and then open the battery cover.
3. Remove the batteries.

- **Please select the correct battery type before use. (see "Battery Type" on page 15 for details).**
- **High-capacity (such as 2500 mAh) rechargeable batteries are recommended.**
- **Carbon-zinc batteries are not recommended.**
- **Remove the batteries from the camera if you do not intend to use the camera for a long time.**
- **If the lens cannot retract into the camera, please replace the batteries first (usually this is because of drained batteries). Then the lens should retract automatically. (Under no circumstances should you push the lens back manually as this may damage the camera.) If the lens still cannot retract, please contact your dealer.**
- **The AA batteries that came with the camera are not rechargeable.**

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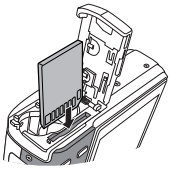
2.2 Inserting and removing an SD memory card

The camera is equipped with internal memory, allowing you to record video clips and capture images. You can also expand the memory capacity by using an optional SD (Secure Digital) memory card to store more files.



1. Always make sure the camera is turned off before inserting or removing a memory card.
2. Insert an SD memory card in the correct direction as shown in the illustration.
3. Close the battery / SD memory card cover.

   To remove the SD memory card, make sure the camera is turned off. Press lightly on the edge of the memory card and it will eject.

- **Be sure to format the SD memory card with this camera before the initial use.**
- **To prevent valuable data from being accidentally erased from an SD memory card, you can slide the write-protect tab (on the side of the SD memory card) to "LOCK".**
- **To save, edit, or erase data on an SD memory card, you must unlock the card.**
- **SD memory card in the following sizes are supported: 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2GB, 4GB, 6GB, 8GB and 16GB SDHC. The camera is compatible with SD memory cards manufactured by Panasonic, Toshiba, and Sandisk. Please contact your local dealer for purchase information.**

Unlocked: You can use both capture and playback modes.

Locked: You can use the playback mode only.

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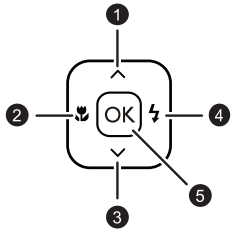
3 Using the Camera

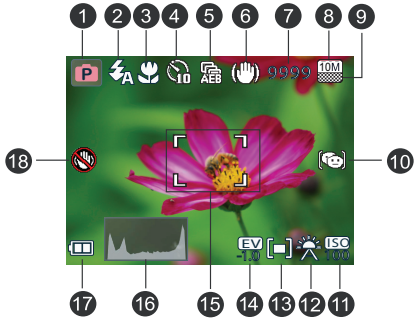
3.1 Navigator

You can use the Navigator with four-way control and one OK button to access numerous controls of your camera.

1. Up ^ or Play (video playback only)
2. Focus mode or left
3. Down v
4. Flash mode or right
5. OK / Toggle between different modes of displayed information



3.2 LCD monitor information (capture mode)



1. Shooting mode
2. Flash mode
3. Focus mode
4. Drive mode
5. AEB
6. S.S.F.
7. Number of shots available
8. Image size
9. Image quality
10. Face tracking
11. ISO
12. White balance
13. AE metering
14. EV compensation
15. AF area
16. Histogram
17. Battery status
18. Camera shake warning

• The above screen is for illustrations only. Actual items showing on the screen may vary depending on the shooting mode you select.

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- **While the shutter is pressed down halfway, the AF area color changes to yellow-green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.**

3.3 Getting started

3.3.1 Turning the power on / off

1. Press [⏻] until the digital camera turns on. Alternatively, you can press the [▶] button to turn on the camera.
2. To turn the power off, press [⏻] again.

3.3.2 Initial setting

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

3.3.2.1 Setting the language

You will be prompted to set up the language when the camera is turned on for the first time.

1. Press [MENU], and then press [❀] / [ϟ] to move to the Setup menu.
2. Press [∧] or [∨] to move to **Language**, and then press [ϟ] or [OK]. (Steps 1 and 2 are skipped when the camera is turned on for the first time.)
3. Press [∧] or [∨] to locate the language you want.
4. Press [OK] to set the language.

3.3.2.2 Setting the date and time

You need to set the date and time when the camera is turned on for the first time, or when the battery has been removed from the camera for a long time. The date and time are used to record the moment a file is captured.

1. Press [MENU], and then press [❀] / [ϟ] to move to the Setup menu. (Step 1 is not needed when the camera is turned on for the first time.)
2. Press [∧] or [∨] to move to **Date & Time**, and then press [ϟ] or [OK].
3. Press [❀] or [ϟ] to select Year, Month, Day, Time, and Format fields.
   - To increase a value, press [∧].
   - To decrease a value, press [∨].
   - The time is displayed in 24 hour format.
4. Press [OK].

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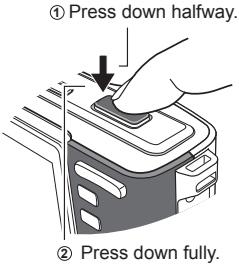
3.3.3 Capture mode

3.3.3.1 Getting started with capturing images

1. Press [⏻] for more than one second to turn on the camera.
2. Compose your image in the LCD monitor in the capture mode.
3. Press the shutter button down halfway (1), and then press it down fully (2).
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure.
   - The focus area frame turns yellow-green when the camera is focused and the exposure is determined.
   - When the focus or exposure is not suitable, the frame of the focus area turns red.



• To review the last captured image, press [▷] . Press [▷] again to return to the capture mode.
• The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.
• To prevent your images from being blurred while pressing the shutter button, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

3.3.4 Using the focus mode

Icon	Focus mode	Description
AF	Auto focus	Adjusts focus automatically.
	Macro	Used when capturing images at close distance.
PF	Pan Focus	Used when you want to capture the subjects in a certain focus range.
	Infinity	Used when capturing images at long distance.

1. Turn the power on, and set the camera to the capture mode.
2. Press [ ] to toggle between different focus modes.

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3.3.5 Flash mode

The flash offers an additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
	Auto Flash	The flash fires automatically based on the photographic conditions.
	Auto Anti Red-eye	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
	Force On	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.
	Slow Sync	Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment.
	Force Off	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

1. Go to the Capture mode.
2. Keep pressing ϟ to toggle among different flash modes and select a desired option.

3.3.6 Drive mode

1. Turn the power on, and set the camera to the capture mode.
2. Press [MENU], and then press [❀] / [ϟ] to select the capture menu.
3. Press [^] / [v] to select Drive Mode and then press [ϟ] or [OK] to launch the submenu.
4. Press [^] / [v] to select an option and press [OK] to apply the setting. Press [MENU] to close the menu, and then press the shutter button to take pictures.

Icon	Drive mode	Description
Off	Standard	Takes one picture at a time.
	Self-timer	Automatically takes a picture after 2 or 10 second delay. This mode is useful when you want to be part of the picture.
	Double	Performs delay and capture twice: 1. Performs a 10-second delay, then captures the image. 2. Performs another 2-second delay, then captures the image again.

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Icon	Drive mode	Description
	Burst	Continuously takes pictures as long as you keep pressing the Shutter. The flash is always off in this mode.

3.3.7 Using the zoom function

Your camera has a combination of optical and digital zoom functions that allows you to zoom in on far away subjects or zoom out for a wide angle shot.

The optical zoom is achieved by mechanically adjusting the lens of the camera. The digital zoom enlarges or shrinks the image using a software process.

1. Make the zoom setting, and point the camera at the subject.
2. Press the zoom button (W / T) to compose the image.

   W : zoom out for a wide-angle shot.

   T : zoom in for a telephoto shot.

   - When the zoom button is pressed, the zoom bar appears on the LCD monitor.
   - When the optical zoom factor is at maximum, zooming stops temporarily. Press T again, the camera switches to the digital zoom automatically and zooming continues.
   - You can use optical zoom in movie capturing.
3. Press the shutter button to take a picture.
4. To turn digital zoom on or off:
   - Press MENU , and then press [ ] / [ ] to select the capture menu.
   - Press [ ] / [ ] to select Digital Zoom and then press [ ] or OK to launch the submenu.
   - Press [ ] / [ ] to select On or Off and press OK to apply the setting. Press MENU to close the menu.

3.4 Menu options

3.4.1 Changing the mode

You can capture images and voices in the capture mode, and use the playback mode to replay, delete, or edit images on the LCD monitor.

3.4.1.1 Switching between capture and playback modes

- In the capture mode, press to switch to the playback mode.
- In the playback mode, press the shutter button or to switch to the capture mode.

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3.4.1.2 Selecting the shooting mode

1. Set the camera to the capture mode.
2. Press [MODE] to show the shooting mode palette.
3. Use the four-way control to select a desired mode and press [OK] to confirm the setting.
4. Press [T] and [W] to turn the shooting mode description on and off.

Shooting mode

Icon	Mode	Description
	Smart Scene	Automatically selects a shooting mode based on the current shooting environment.
	Program	You can set the shooting parameters manually.
	Movie Record	Captures videos with sound. When viewing the captured video file later, you can see a unique icon that appears on the screen and indicates that this is a video file.
	Smile Catch	Automatically takes a shot when a smile is detected.
	Blink Detector	Warns of eye blinks if detected & lets you decide whether to save the image file.
	Landscape	Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved.
	Backlight	Increases exposure (by turning on the flash) when light illuminates the subject from behind.
	Night Scene	Captures photos in a low-light environment, such as in the evening or at night.
	Building	Enhances lines & contracts to highlight the sense of the three dimensions (3D) for a building.
	Child	Increases sensitivity and emphasizes children's skin tones.
ISO HI	High ISO Portrait	Makes people stand out with the background out-of-focus even in a dark environment. In this mode, a higher ISO value is used.
	Food	Captures food by enhancing color brightness and giving more vivid colors.
	Text	Improves clarity & contrast when taking a close-up picture of documents.
	Snow	Used under a very bright light environment such as snow scenes.
	Fireworks	Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.

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Shooting mode		
Icon	**Mode**	**Description**
	Sunset	Captures the warmth and atmosphere (represented by hue) of sunrise or sunset.
	Voice Rec. (Voice Record)	Captures background sound only (no images or videos). When listening to the captured audio file later, you can see a unique icon that appears on the screen and indicates that this is an audio file.

• ISO, Metering, and White Balance are not available in some shooting modes. You must select another mode like Program to enable these options.

3.4.2 Using the menus

When a menu is displayed, the four-way control and OK are used to make the desired settings.

1. Turn the power on, and set the camera to the capture mode.
2. Press MENU and then press [ ] / [ ] to select the capture menu.
3. Press [ ] / [ ] to select a menu item and then press [ ] or OK to launch the submenu.
4. Press [ ] / [ ] to select an option and press OK to apply the setting.
5. Press MENU to close the menu.

3.4.2.1 Capture menu list (still image)

Menu item	Available settings
Resolution	10M / 3:2 / 16:9 / 8M / 5M / 3M / VGA
Quality	(Super Fine) / (Fine) / (Normal)
Metering	(Cen. Weight) / (Matrix) / (Spot)
White Balance	(Auto) / (Daylight) / (Cloudy) / (Tungsten) / (Fluorescent H) / (Fluorescent L) / (Manual)
ISO	ISO A / ISO 100 / ISO 200 / ISO 400 / ISO 800 / ISO 1600 / ISO 3200 (ISO 3200 for resolution 3M or under only)
EV compensation (Exposure)	-2.0 EV ~ +2.0 EV
Drive Mode	Off / (2 sec.) / (10 sec.) / (Double) / (Burst)

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Menu item	Available settings
AEB	Off / On
Highlight	Off (highlighted in the rectangular area surrounded by the four corners) (highlighted in the portrait area) (highlighted in the horizontal portrait area)
Sharpness	(High) / (Normal) / (Low)
Effect	Normal / B&W / Sepia / Negative / Vivid Red / Vivid Green / Vivid Blue
Date Stamp	Off / Date / Date & Time
S.S.F.	Off / On
Face Tracking	Off / On
Photo Frame	Off / Choose one out of 10 frames
Digital Zoom	Off / On

3.4.2.2 Capture menu list (movie)

Menu item	Available settings
Video Format	16:9 / 640 / 320 / 160
Metering	/ / (see 3.4.2.1 “Capture menu list (still image)” on page 12)
White Balance	/ / / / / / / (see 3.4.2.1 “Capture menu list (still image)” on page 12)

3.4.3 Setup menu

1. Turn the power on, and set the camera to the capture or playback mode.
2. Press [MENU], and then press the [ ] / [ϟ] to select the Setup menu.
3. Press [^] / [v] to select a menu item and then press [ϟ] or [OK] to launch the submenu.
4. Press [^] / [v] to select an option and press [OK] to apply the setting.
5. Press [MENU] to close the menu.

• Some options may require more steps than what is described here.

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3.4.3.1 Setup menu list

Menu item	Functions	
Sounds	[Shutter]	Sets the shutter sound on and off.
	[Startup]	Sets a type of the startup sound.
	[Operation]	Sets the operation sound on and off.
	[Volume]	Adjusts the volume of the shutter sound, startup sound, operation sound and playback sound.
Instant Review	OFF [Off]	The captured image is not automatically displayed.
	1s [1 sec.]	The captured image will display for 1 second after shooting.
	3s [3 sec.]	The captured image will display for 3 seconds after shooting.
	5s [5 sec.]	The captured image will display for 5 seconds after shooting.
	☞ During instant review, half press the shutter to return to the capture mode.	
LCD Save	OFF [Off]	The LCD screen remains bright when the camera is idle.
	ON [On]	For power conservation, the LCD screen is dimmed automatically after 5 seconds.
Power Save	OFF [Off]	The camera remains on when idle.
	1min [1 min.]	For power conservation, the LCD screen is turned off automatically after a period of time you set.
	3min [3 min.]	
	5min [5 min.]	
Date & Time	Sets the date & time.	
Language	Select a language for display menus and other information.	
File Numbering	[Series]	Stores the latest used file number regardless of deleted files or a change of memory card. This is useful for avoiding file name duplication when images are downloaded to a computer.
	[Reset]	Resets file numbering each time the memory card is changed.

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Menu item	Functions	
TV Format	You can review images on a television with an AV cable. TV Format should be set to either NTSC or PAL depending on your region.	
	[NTSC]	America, Japan, Taiwan and others
	[PAL]	China, Europe, Oceania and others
	☞ TV Format should be set to either NTSC or PAL depending on your region. For details about which system should be used, check with your local authorities.	
USB	[Computer]	Sets the USB mode to connect the camera with a printer or computer.
	[Printer]	
Format	To erase all data stored in the memory card if you are using a card, or all data stored in the internal memory if there is no card inserted. A “Busy...please wait” message displays while the memory card is being formatted. A “Completed” message displays when formatting is finished. All data will be deleted, including protected files. Be sure to download important files to your computer before formatting.	
Battery Type	To ensure the camera displays battery level correctly, set the type to match the batteries used. Carbon-Zinc batteries are not recommended.	
	[Alkaline]	When using Alkaline batteries.
	[NiMH]	When using NiMH batteries.
	[Lithium]	When using Lithium batteries.
	[Oxyride]	When using Oxyride batteries.
Reset All	Resets the entire menu and button operation settings to initial default. The following settings do not change after Reset All: Date & Time setting Language setting TV Format setting Battery Type	

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3.5 Capturing movie clips

1. Turn the power on, and set the camera to the Movie Record mode.
2. Compose the subject on the monitor.
   - Aim the focus area the subject.
   - The LCD monitor displays the available capturing time.
3. Start capturing.
   - Press the shutter button to start capturing.
   - Use the zoom button to adjust the image size.

☞ **• Sound cannot be captured while pressing the zoom button.**
• You can use optical zoom in movie capturing.

4. Finish capturing.
   - Press the shutter again to end capturing.
   - The camera will stop capturing automatically when the memory capacity has been reached.

3.6 Capturing audio clips

1. Turn the power on, and set the camera to the voice capture mode.
2. Press the shutter button to start capturing.
   - Audio is captured from the microphone of the camera. Be careful to avoid touching the microphone while capturing.
3. Press the shutter button again to end capturing.
   - The camera will stop capturing automatically when the memory capacity has been reached.

3.7 Other capturing functions

3.7.1 Setting the quality

Compression		Purpose
	Super Fine	Shoot higher quality images.
	Fine	Shoot normal quality images.
	Normal	Shoot for more images.

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3.7.2 Setting the metering

There are 3 different light metering options available on your camera.

Icon	Mode	Description
	Cen. Weight	Light is measured from the entire shooting screen, but gives more importance to the values near the center.
	Matrix	Selects an exposure based on readings from multiple points in the subject area
	Spot	Selects an exposure based on a single reading taken from the center of your picture.

3.7.3 Setting the white balance

Adjusts the white balance to match different light sources such as sunlight, incandescent (tungsten) lighting, or fluorescent lighting.

Icon	Mode	Description
	Auto	Automatically corrects white balance. Ideal for general photography.
	Daylight	Adjusts for bright sun conditions, or natural light conditions.
	Cloudy	Adjusts for cloudy days or twilight conditions.
	Tungsten	Adjusts for normal indoor lighting conditions. Corrects the orange hue of household light bulbs. Ideal for indoor photos under tungsten or halogen lighting without a flash.
	Fluorescent H Fluorescent L	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash. – Fluorescent H: Used for newer daylight fluorescent lighting – Fluorescent L: Used for traditional fluorescent lighting
	Manual	For more accurate adjustment or when the light source cannot be specified. When this option is highlighted, press OK to enter the **Manual** mode. Then, point the frame (as shown on the screen) at something white (for example, white paper) as the reference white color and press OK again to confirm the manual setting.

3.7.4 Setting the ISO

With the initial settings, the ISO sensitivity is automatically set according to the brightness of the subject.

- **A higher ISO value increases the image noise. To take clean images, use an ISO value as low as possible.**
- **When S.S.F. is enabled, the ISO value is set to Auto and cannot be changed.**

3.7.5 Setting the EV compensation

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Sets the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting.

3.7.6 Setting the AEB

Sets the auto exposure bracketing (AEB) to shoot 3 continuous images, each with a different exposure setting: correctly exposed, underexposed, and overexposed.

3.7.7 Setting the highlight

Makes the subject stand out from its surroundings. The subject will be in focus in three different highlight methods: / / .

3.7.8 Setting the sharpness

You can select whether you want the image to have sharp or soft outlines.

Icon	Mode	Description
	High	The edges of the image are emphasized. The edges will become sharp, but noise may occur in the captured image.
	Normal	The edges of the image are sharp. This is suitable for printing.
	Low	The edges of the image are softened. This is suitable for editing images on PC.

3.7.9 Setting the photo effect

You can add special effects to your images in the capture or playback mode.

Icon	Mode	Description
	Normal	No effect is added to the image. (capture mode only)
N/A	Remove Red Eye	Tries to reduce the red eye effect. (for a still image in the playback mode only)
	B&W	Convert the image to black & white.
	Sepia	The captured image will be stored in a sepia tone.
	Negative	Colors become the opposite of what they were in the original image.
N/A	Mosaic	Applies a mosaic tile effect to an image. (for a still image in the playback mode only)
	Vivid Red	A vibrant red tone is added to the image.
	Vivid Green	A vibrant green tone is added to the image.

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Icon	Mode	Description
	Vivid Blue	A vibrant blue tone is added to the image.

3.7.10 Setting the date stamp

The Date Stamp function can be used to add a date to your pictures as you take them.

3.7.11 Setting S.S.F.

With more sensibility and faster shutter speed to brighten up the pictures, effectively preventing blurred images caused by hand shaking or target movement, one can take good pictures with little effort.

• Turn on S.S.F. from the menu in the capture mode.
• S.S.F. is not available in the Aperture Priority / Shutter Priority / Manual / Fireworks / Night Scene / Movie / Voice Rec. shooting modes.

3.7.12 Setting face tracking

1. Turn on **[Face Tracking]** from the menu in the capture mode.
2. Aim the lens at the subject(s). One or several white frames show on the screen focusing on the subjects, depending on the number of subjects detected by the camera (max. 8 faces).
3. Press the shutter halfway to set automatic focus.
4. Wait until the frames turn green, and press the shutter down.

• When face tracking is enabled, only normal and macro AF ranges are available. Pan Focus and infinite focus range will automatically be set to normal when face tracking is enabled.

3.7.13 Setting photo frame

You can add 10 kinds of frames to still images, making them more interesting.

3.7.14 Setting Av/Tv/M

Pressing the Av/Tv/M button toggles between the current shooting mode, Aperture priority (Av or A), Shutter priority (Tv or S), and Manual (M) when determining the exposure value.

- Aperture priority: You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject. Aperture priority is often used when shooting static subjects or emphasizing the depth of field. In general, use a smaller aperture if a greater depth of field is needed.
- Shutter priority: You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject. Shutter priority is often used when shooting moving subjects. In general, use a shorter shutter speed to catch a fast-moving object.
- Manual: You can set both the shutter speed and the aperture value.

• When toggling between Av/Tv, press the shutter halfway for exposure metering.

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3.7.15 Using Smile Catch

Smile Catch automatically captures the moment of a smile of your subject.

1. In the capture mode, press [MODE] and select .
2. The camera is tracking the face of your subject (a white frame shows).
3. Press the shutter to activate smile tracking, and then release the shutter immediately. The camera now is tracking the smile of your subject (a green frame shows).
4. Once a smile is detected, the camera instantly takes a picture.
5. The camera continues to detect smiles and takes more pictures (Step 4 is repeated). To stop the smile tracking at anytime, press the shutter.
   - The camera will also automatically stop smile tracking if your subject leaves your composition area.
   - Face tracking (one face only) is always on in the Smile Catch mode.

3.7.16 Smart Scene

Smart Scene automatically selects the best shooting mode from Backlight , Landscape , Macro , Portrait , and Night Scene .

1. In the capture mode, press [MODE] and select .
2. Press the shutter halfway to set automatic focus. The selected shooting mode is displayed in the top left corner of the screen.
3. Press the shutter to capture an image.

• If the current environment does not fit into one of the above 5 shooting modes, Smart Scene will automatically switch to its default value.

3.7.17 Blink Detector

Blink Detector automatically detects blinking when you capture an image.

1. In the capture mode, press [MODE] and select .
2. Press the shutter to capture an image. If blinking is detected, a warning message appears on the screen.
3. Press [^] / [v] to save or discard the image, and then press [ϟ] or [OK] to confirm.

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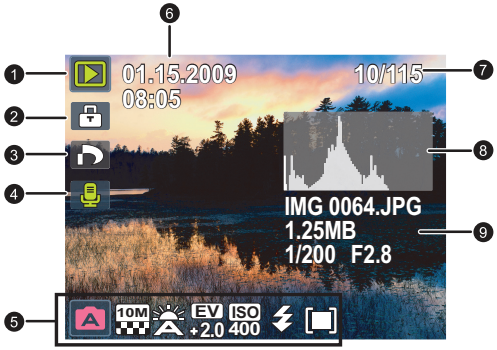
3.8 Playback



- When the camera is off, press and hold [▶] for at least one second to enter the Playback mode.
- In the Capture mode, press [▶] to enter the Playback mode.
- In the Playback mode, press [▶] or the Shutter to switch to the Capture mode.
- While pausing video playback, you can press the shutter to capture the video frame as a still image in the VGA format.

Icon	Description
1	Indicates that the camera is in the Playback mode.
2	Indicates that the file is protected and cannot be deleted.
3	Indicates the file is marked for printing.
4	Indicates this file has a voice memo or the file is an audio file.
5	Displays the shooting parameters when you took the picture or playback controls. Press [OK] to toggle between different displayed information.
6	Date and time when the file was created.
7	File number
8	Histogram
9	File name, file size, shutter speed, and f-number.

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3.8.1 Playing back images

1. Turn the power on, and set the camera to the playback mode.
   - The most recently captured image appears on the LCD monitor.
   - If there are no images stored, the message **[No image]** appears.
2. Press the four-way control.
   - [✿] displays the previous image.
   - [ϟ] displays the next image.

• Holding down [✿] or [ϟ] scrolls images at high speed.

3.8.2 Playing back movie clips

1. Turn the power on, and set the camera to the playback mode.
2. Press [✿] or [ϟ] to select a movie clip that you want to playback.
3. Start playing back.
   - Press [^] to start playing the movie clip.
   - Press [MENU] to stop the movie clip, or press [^] to pause it. Press [^] again to resume.

• During movie playing back, press [ϟ] to fast forward or press [✿] to rewind.
• While pausing video playback, you can press the shutter to capture the video frame as a still image in the VGA format.
• While pausing video playback, you can view the video frame by frame. Press [ϟ] to fast forward one frame, or press [✿] to rewind one frame. Press and hold [ϟ] to fast forward frame by frame continuously, or press [✿] to rewind frame by frame continuously.

3.8.3 Adjusting the playback volume

1. Turn the power on, and set the camera to the playback mode.
2. Press [✿] or [ϟ] to select a video clip, audio clip, or voice memo that you want to playback.
3. Adjust the volume.
   - Press [T] to increase the volume.
   - Press [W] to decrease the volume

• The volume can be set during play/pause, but not during rewind/fast forward.

3.8.4 Magnifying & trimming still images

1. Turn the power on, and set the camera to the playback mode.
2. Select an image.
   - Press [✿] or [ϟ] to select the image that you want to magnify or trim.
   - Only still images can be magnified and trimmed.
3. Magnify the image.
   - Press [T] to magnify the image, and the central portion of the image is displayed. You can use the four-way control to view different parts of the magnified image.

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- Press [W] to zoom-out.
- Press [MENU] to return to the normal size.

4. Trim the image.
   - Press [OK] to set the image trimming.
5. Save the image.
   - Press [OK] again to trim the selected image and save it as a new one.

3.8.5 Viewing in thumbnail

1. Turn the power on, and set the camera to the playback mode.
2. Press the zoom button [W]. A thumbnail screen is displayed.
3. Use the four-way control to select the desired image, and press [T] or [OK] to show the selected image in full screen.

3.8.6 Playing a slideshow

1. Turn the power on, and set the camera to the playback mode.
2. Enter the slideshow.
   - Press [MENU] and use [^] / [ˇ] to select **Slideshow** and press [ϟ] or [OK].
3. Change the slideshow settings.
   - Use the four-way control to set the slideshow interval, music, transition and repeat.
   - You can set the interval between 1~10 seconds.
4. Play the slideshow.
   - Press [^] / [ˇ] to select **Start** and press [ϟ] or [OK] to play the slideshow.
   - During the slideshow, press [OK] to pause the slideshow and press [OK] again to resume.
   - Press [MENU] to stop.

3.8.7 Deleting a single file or all files

1. Turn the power on, and set the camera to the playback mode.
2. Press [❦] or [ϟ] to select the image you want to delete.
3. Open the menu.
   - Press [MENU], then use [❦] / [ϟ] to select the playback menu.
   - Press [^] / [ˇ] to select Delete and press [ϟ] or [OK].
4. Press [^] or [ˇ] to select **[Single]**, and press [ϟ]or [OK].

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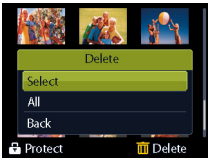
- To delete all images, select **[All]** and press [ϟ]or (OK).



• To quickly delete the current display image:

1. Select the image you want to delete.
2. Press [🗑] to show a confirmation.
3. Press (OK) to delete the current display image.

• Protected images cannot be deleted with this function.

3.8.8 Deleting multiple files

1. Turn the power on, and set the camera to the thumbnail screen.
2. Open the menu.
   - Press [MENU], then press [✋] or [ϟ] to select **Delete** 🗑.
3. Press [∧] or [∨] to select **[Select]**, and then press (OK).
   - The selected image is displayed with an icon 🗑.
4. Select multiple images.
   - Use the four-way control to select the image.
   - Press (OK) to toggle 🗑 on and off. Repeat this step until all images that you want to delete are displayed with an icon 🗑.
5. Delete images.
   - Press [MENU], then select **[Yes]** and press (OK). All selected images will be deleted.
   - To cancel delete, press [MENU] in this step.

3.8.9 Setting the startup screen

You can set the welcome image that is displayed when the camera is powered on.

1. Turn the power on, and set the camera to the playback mode.
2. Open the menu.
   - Press [MENU], then use [✋] / [ϟ] to select the playback menu.
   - Press [∧] / [∨] to select Startup Image and press [ϟ] or (OK).
3. Press [∧] / [∨] to select [**My Photos**] and press (OK).
   - To disable the startup screen, select [**Off**] and press (OK).
   - To use the default startup screen, select [**Default**] and press (OK).

3.8.10 Setting the DPOF for printing

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

1. Turn the power on, and set the camera to the playback mode.

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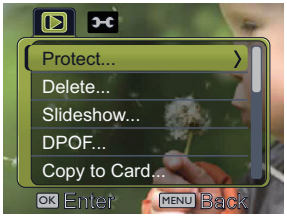
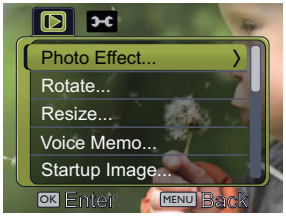
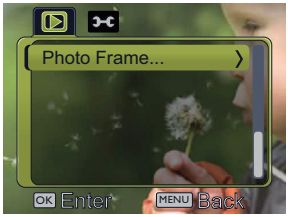
2. Open the menu.
   - Press [MENU], then use [ ] / [ ] to select the playback menu.
   - Press [ ] / [ ] to select DPOF and press [ ] or [OK].
3. Press [ ] or [ ] to select **[Single]**, then press [OK].
   - To set the DPOF setting for all images, select **[All]**.
   - To reset all DPOF settings to initial default, select **[Reset]**.
4. Select the images you want to print out.
   - Press [ ] or [ ] to select each image.
   - Press [ ] / [ ] to specify the number of copies for the current image.
   - Press [ ] to set or cancel the date stamp of the current image.
5. After you complete all image settings, press [OK] to apply them.

3.8.11 Other playback functions

You can also protect (lock) images from being deleted, edit images, copy files, or enter setup for more options. To do so, press [MENU] in the playback mode, and select a function.







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4 PC Dependent Features

4.1 Bundled software

The camera is supplied with the following software. To install the software, refer to the information supplied with respective CDs.

ArcSoft PhotoImpression 5	Combines photo editing with creative enhancement and sharing tools that maximize your digital media experience.
ArcSoft VideoImpression 2	Creates multimedia presentations by combining photos and video clips with audio, text and scene transitions.

4.2 Transferring files to your computer

After using a USB cable to establish a connection between the camera and your computer, you can use your computer to share captured images or recorded video clips with your family or friends via e-mail or post them on the Web. Note that before you begin, you need to check your system meets the following requirements.

	System Requirements (Windows)
CPU	Pentium III 600 MHz processor or higher
Operating System	Windows Me / 2000 / XP / Vista
RAM	64 MB
Hard Disk Space	128 MB hard disk space
Required Devices	A CD-ROM drive An available USB port
Display	Color Monitor (800 x 600, 24-bit or higher recommended)

4.2.1 Step 1: Connect the digital camera to your computer

1. Connect the supplied USB cable to the computer USB port and turn on the camera.
2. The LCD screen turns off when the connection to the computer has been successfully completed.

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4.2.2 Step 2: Download images or video clips

When the digital camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from **Removable Disk** to your computer hard drive.

Windows

Open the **Removable Disk** and double-click on the **DCIM** folder to find more folders. Your images are inside these folder(s). Select the desired still images or video clips, and then choose **Copy** from the **Edit** menu. Open the destination location (folder) and choose **Paste** from the **Edit** menu. You may also drag and drop image files from the digital camera to a desired location.

☞
- **Memory card users may prefer to use a memory card reader (highly recommended).**
- **Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.**

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5 Troubleshooting

Refer to the symptoms and solutions listed below before shipping your camera for service. If the problem persists, contact your local reseller or service center.

Symptom	Cause	Solution
The camera cannot be powered up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Replace with new batteries.
The battery power is draining quickly.	The external temperature is extremely low.	—
	Many shots are being captured in dark places, requiring a flash.	—
	A rechargeable battery was used and it was not fully charged. The battery has not been used for an extended period of time after being charged.	Fully charge the rechargeable battery and discharge it for at least one complete cycle before use.
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	—
The flash does not fire. The flash does not recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	—
	The flash is not available in some modes.	—
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
Colors of the images taken are not shown properly.	White Balance was not set properly when the images were taken.	Select a suitable White Balance setting before taking each picture.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Turn on the camera, select **USB** > **Printer**, and then connect to the printer.

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Symptom	Cause	Solution
I cannot download images.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Recharge your batteries or replace with new batteries if necessary.
The camera does not shoot even when the shutter button is pressed.	The battery is running low.	Recharge your batteries or replace with new batteries.
	The camera is not in capture mode.	Switch to capture mode.
	The shutter button was not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon on the screen stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
After connecting the camera to a computer, an error message “Device not ready” or “Camera not ready” appears.	The computer runs on Windows 98 or earlier.	—
When connecting the camera to a computer, the computer freezes.	The memory card inside the camera may not be formatted.	Format the memory card to the FAT16 format using a card reader in Windows or using the camera.
A memory error occurs.	The memory card may not be formatted correctly.	Re-format the memory card to the FAT16 format using a card reader in Windows.
A video clip becomes 15fps instead of 30fps.	When using the internal memory or a slow-speed memory card, fps might be reduced to 15.	Avoid using the internal memory or an outdated memory card to capture videos.
After the flash is fired, I have to wait for a while before taking the next picture.	It is natural for AA batteries to spend some time in recharging to the level enough for the next picture.	—

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6 Specifications

Sensor	SHARP 10 Mega Pixels, 1/2.3 inch CCD
Zoom	Optical: 3X Digital: Up to 4X (Capture) / Up to 5X (Playback)
Lens	f = 6.2 (W) ~ 18.6 (T) mm F: 2.8 (W) ~ 5.2 (T) (f = 37.5 ~ 112.5mm, 35mm equivalent)
Focus Range	Normal: 40cm ~ Infinity Macro: W = 15~60cm; T = 40cm~60 cm
LCD	2.5" LCD 153k pixels
Image Resolution	10M (3648 x 2736) / 3:2 (3648 x 2432) 16:9 (3648 x 2048) / 8M (3264 x 2448) 5M (2560 x 1920) / 3M (2048 x 1536) VGA (640 x 480)
Movie Mode	720 x 400 (16:9) / 640 x 480 320 x 240 / 160 x 120 30 fps, Continuous recording with sound
Shutter Speed	Program mode: 1/2000 ~ 1 sec (Night Scene: 8 sec; Fireworks: 2 sec)
White Balance	Manual (6 modes in manual selection: Daylight / Cloudy / Tungsten / Fluorescent H / Fluorescent L / Manual)
Exposure	-2.0 ~ +2.0 EV (0.3EV / step)
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 (ISO 3200 for resolution 3M or under only)
Flash	Auto Flash, Auto Anti Red-eye, Force On, Slow Sync, Force Off
Drive Mode	Off / 10 sec. / 2 sec. / Double / Burst
Power Source	AA Battery x 2
Storage Type	Built-in Approx. 22MB (Usable) 4GB SD/16GB SDHC card compatible
File Format	Still Image: JPEG (EXIF 2.2 compatible) DCF compatible; Support DPOF; Video: MJPEG; Audio: WAV
Dimensions / Weight	93.1 x 62.2 x 25.1 (mm) 130g (w/o battery & SD card)
Interface	Digital output: USB 2.0 compatible Audio/Video output (NTSC/PAL) PictBridge compatible
Accessory	USB Cable / Software & UM CD / Quick Guide / Hand Strap / Pouch / Non-rechargeable AA Alkaline batteries x 2

* All information, designs, and specifications are subject to change without prior notice.

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7 Service Information

Technical Support

For further services, product information, user manual, and news releases, visit the following web site:

http://www.BenQ.com

English

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